REISSUE PATENTS

JANUARY 1977 -- DECEMBER 2001



April 2002 U.S. PATENT AND TRADEMARK OFFICE INFORMATION PRODUCTS DIVISION / TAF BRANCH PK3 - SUITE 441, WASHINGTON, DC 20231 TEL (703) 306-2600/ FAX (703) 306-2737

A TECHNOLOGY ASSESSMENT AND FORECAST REPORT

This Technology Assessment and Forecast (TAF) Program Report profiles patent activity for U.S. reissue patents (hereafter referred to as patents) granted between 1977 and December 2001. The source of the data used for this report is the TAF database maintained by the Information Products Division.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "Pre 1988" column corresponds to the period **January 1, 1977** through **December 31, 1987**.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 25% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 2001.** Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in years such as 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable from one patent to another thereby affecting the date of patent grant. Such variation in pendency is

determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 5 or more U.S. reissue patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

^{*} As of **December 31, 2001**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 79% complete for patent applications filed in 1998 and 53% complete for applications filed in 1999 and 16% complete for 2000 filings. They are essentially complete for applications filed prior to 1998. Currently, completion percentages restricted to reissue patents are not available.

Part A1
Patent Grants As Distributed By Year of Patent Grant

| | | Patents | Granted | By Da | ate Of | Patent | Grant | (Granted: | Jan 01, | 1977 - | Dec 31, | 2001) | | | | | |
|------------------------------|----------|---------|---------|-------|--------|--------|-------|-----------|---------|--------|---------|-------|------|----------|------|------------|--|
| | | | | | | | N | UMBER OF | PATENTS | | | | | | | | |
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | Total | |
| | | | | | | | | | | | | | | | | | |
| Total | 3447 | 244 | 317 | 370 | 263 | 360 | 332 | 317 | 316 | 279 | 277 | 298 | 448 | 524 | 480 | 8272 | |
| U.S. Origin | 2492 | 167 | 212 | 241 | 171 | 231 | 207 | 194 | 208 | 175 | 173 | 195 | 274 | 331 | 266 | 5537 | |
| Foreign Origin | 955 | 77 | 105 | 129 | 92 | 129 | 125 | 123 | 108 | 104 | 104 | 103 | 174 | 193 | 214 | 2735 | |
| | | | | | | | | | | | | | | | | | |
| JAPAN | 290 | 28 | 49 | 58 | 53 | 66 | 61 | 59 | 61 | 49 | 51 | 48 | 86 | 112 | 98 | 1169 | |
| GERMANY | 184 | 20 | 16 | 15 | 8 | 19 | 13 | 18 | 9 | 9 | 10 | 15 | 20 | 13 | 23 | 392 | |
| UNITED KINGDOM | 137 | 8 | 15 | 12 | 4 | 10 | 16 | 11 | 6 | 11 | 8 | 8 | 8 | 13 | 11 | 278 | |
| FRANCE | 65 | 1 | 6 | 9 | 5 | 4 | 9 | 7 | 3 | 9 | 5 | 7 | 14 | 7 | 15 | 166 | |
| CANADA | 50 | 2 | 5 | 9 | 6 | 5 | 6 | 9 | 5 | 5 | 4 | 7 | 8 | 10 | 11 | 142 | |
| ITALY | 27 | 1 | 1 | 3 | 3 | 1 | 1 | 2 | 4 | 4 | 13 | 4 | 14 | 4 | 15 | 97 | |
| NETHERLANDS | 39 | 5 | 2 | 2 | 5 | 6 | 3 | | 4 | 3 | 2 | 1 | 4 | 1 | 4 | 81 | |
| SWITZERLAND | 34 | 6 | 1 | 6 | 3 | 4 | 2 | 2 | 3 | 5 | | 1 | 1 | 4 | 4 | 76 | |
| SWEDEN | 41 | 1 | 1 | 3 | 2 | 3 | 3 | 1 | 1 | 1 | 3 | 2 | 4 | | 6 | 72 | |
| AUSTRALIA | 16 | 1 | 1 | 1 | 1 | 3 | 1 | 4 | 1 | 1 | | 2 | 1 | 1 | 4 | 38 | |
| DENMARK | 13 | 1 | | 2 | | 1 | 1 | 2 | | | 1 | 2 | 4 | 2 | 2 | 31 | |
| ISRAEL | 6 | | 3 | 3 | | | 1 | | 1 | 2 | | 4 | 1 | 4 | 2 | 27 | |
| SOUTH KOREA | | | | | | | 1 | | 1 | 2 | 1 | | 6 | 7 | 6 | 24 | |
| AUSTRIA | 7 | | | 1 | | 2 | 2 | 1 | 1 | | | 2 | 1 | 2 | 2 | 21 | |
| TAIWAN | 1 | 1 | | | | 2 | 1 | 2 | 1 | | 1 | | | 4 | 5 | 18 | |
| BELGIUM | 11 | | 1 | 2 | | 1 | | | | | | | | 2 | | 17 | |
| NORWAY | 11 | 2 | | | | | 1 | | | | | | 1 | | 1 | 16 | |
| FINLAND | 3 | | 1 | 1 | | 1 | 1 | | 2 | | 1 | | 1 | 1 | | 12 | |
| NEW ZEALAND | 5 | | | 2 | | | | | | 1 | | | | 1 | 3 | 12 | |
| SPAIN | 1 | | | | | | | 2 | 1 | | 1 | | | 1 | | 6 | |
| SOUTH AFRICA | 2 | | 1 | | | | 1 | | | | | | | 1 | | 5 | |
| INDONESIA | 1 | | | | | | | | 2 | 1 | | | | | | 4 | |
| CHINA, HONG KONG S.A. | 1 | | | | | | 1 | | | | | | | 1 | 1 | 4 | |
| BRAZIL | 1 | | 1 | | | | | | | | 1 | | | | | 3 | |
| RUSSIAN FEDERATION | | | | | | | | | 1 | 1 | | | | 1 | | 3 | |
| LIECHTENSTEIN | 1 | | | | | | | | 1 | | | | | | | 2 | |
| CZECHOSLOVAKIA | 2 | | | | | | | | | | | | | | | 2 | |
| HUNGARY | 2 | | | | | | | | | | | | | | | 2 | |
| LUXEMBOURG | | | 1 | | 1 | | | | | | | | | | | 2 | |
| IRELAND | | | | | 1 | | | | | | 1 | | | | | 2 | |
| ARGENTINA | | | | | | | | 2 | | | | | | | | 2 | |
| MEXICO | 1 | | | | | | | | | | 1 | | | | | 2 | |
| THAILAND | | | | | | 1 | | | | | | | | | | 1 | |
| GREECE | 1 | | | | | | | | | | | | | | | 1 | |
| CHILE | 1 | | | | | | | _ | | | | | | | | 1 | |
| PERU | - | | | | | | | 1 | | | | | | _ | _ | 1 | |
| Others (3) | 1 | | | | | | | | | | | | | 1 | 1 | 3 | |
| Ormanshina | | | | | | | | | | | | | | | | | |
| Ownership: U.S. Corporations | 2100 | 126 | 165 | 185 | 133 | 188 | 156 | 152 | 164 | 134 | 146 | 163 | 214 | 265 | 234 | 4525 | |
| U.S. Government | 2100 | 126 | 103 | 100 | 133 | 2 | 156 | 152 | 164 | 134 | 146 | 103 | 1 | 265 5 | 3 | 4525 28 | |
| U.S. Individuals | 463 | 40 | 51 | 61 | 44 | 47 | 52 | 45 | 49 | 46 | 33 | 39 | 66 | 64 | 43 | 1143 | |
| J.D. Individuals | 403 | 40 | JI | 01 | 77 | 7/ | 32 | 13 | 7.7 | 70 | 33 | 33 | 00 | 0.7 | 73 | 1113 | |
| Foreign Corporations | 741 | 70 | 85 | 107 | 78 | 112 | 105 | 110 | 96 | 91 | 92 | 93 | 158 | 180 | 180 | 2298 | |
| Foreign Government | 8 | 1 | 2 | 3 | , 0 | 2 | 3 | 1 | 70 | 1 | ,,, | 1 | 133 | 100 | 1 | 2238 | |
| Foreign Individuals | 126 | 6 | 14 | 14 | 7 | 9 | 13 | 8 | 6 | 7 | 5 | 2 | 9 | 10 | 19 | 255 | |
| roreryn individuals | 120 | | 7.7 | 7-2 | , | , | | J | Ū | , | 3 | | , | 10 | 13 | 233 | |

| Pre-1988 1988 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 1989 2000 2001 Tenton 100 | | | Patents | Granted | By Da | te Of | Patent | Grant | (Granted: | Jan 01, | 1977 - | Dec 31, | 2001) | | | | |
|--|----------------------|----------|---------|---------|-------|-------|--------|-------|-----------|---------|--------|---------|-------|------|------|------|-------|
| Perila 198 | | | | | | | | PI | ERCENT OF | PATENTS | | | | | | | |
| U.S. Origin 72 68 67 65 65 65 64 62 61 66 63 62 65 61 63 55 87 70 70 reary for origin 28 32 32 33 55 58 88 83 83 83 83 83 83 83 83 83 83 83 83 | I | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | | | | | 1997 | 1998 | 1999 | 2000 | 2001 | Total |
| U.S. Origin 72 68 67 65 65 65 64 62 61 66 63 62 65 61 63 55 87 70 70 reary for origin 28 32 32 33 55 58 88 83 83 83 83 83 83 83 83 83 83 83 83 | | | | | | | | | | | | | | | | | |
| Processing Origin | Total | | | | | | | | | | | | | | | | |
| APAN 8 11 15 16 20 18 18 19 19 19 18 18 16 10 19 21 20 14 16 16 18 17 21 20 14 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18 | | | | | | | | | | | | | | | | | |
| GERNANN 5 | roreign origin | 20 | 32 | 33 | 33 | 33 | 30 | 36 | 39 | 34 | 37 | 36 | 33 | 33 | 37 | 43 | 33 |
| UNITED XTNOON 4 | JAPAN | 8 | 11 | 15 | 16 | 20 | 18 | 18 | 19 | 19 | 18 | 18 | 16 | 19 | 21 | 20 | 14 |
| FRANCE 2 2 2 2 1 1 2 3 2 2 1 3 3 2 2 1 3 2 2 2 3 3 1 3 3 2 2 2 2 | GERMANY | 5 | 8 | 5 | 4 | 3 | 5 | 4 | 6 | 3 | 3 | 4 | 5 | 4 | 2 | 5 | 5 |
| CANDAM 1 1 2 2 2 2 1 2 3 2 2 1 2 3 2 2 1 2 3 2 2 2 2 | | | 3 | | | | | | | | | | | | | | |
| INTERLELANDS 1 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | |
| NETERIAND 1 2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 | | | 1 | 2 | | | 1 | 2 | | | | | | | | | |
| SHENK 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | 2 | 1 | | | 2 | 1 | 1 | | | | 1 | | | | |
| METHOD 1 | | | | - | | | | | 1 | | | - | | - | 1 | | |
| DENNAME | | | | | | | | | | | | 1 | 1 | 1 | | | |
| SOTH KOREA | AUSTRALIA | | | | | | 1 | | 1 | | | | 1 | | | 1 | 0 |
| SOUTH KOREA | | | | | | | | | 1 | | | | | 1 | | | |
| AMSTRIA | | | | 1 | 1 | | | | | | | | 1 | _ | | _ | |
| TATIWAN | | | | | | | 1 | 1 | | | 1 | | 1 | 1 | 1 | 1 | |
| ERICITING NORWAY 1 FINITADN SOLATION NEW ZEALAND SOLIT AFRICA SOL | | | | | | | | 1 | 1 | | | | 1 | | 1 | 1 | |
| NEW ZEALAND SPAIN SOUTH AFRICA INONE SAIN SOUTH AFRICA INONESIA CHINA, ROWS (KONG S.A.R BRAZIL RUSSIAN FEDERATION LIECHTENSTEIN CEECHGSLOVARIA HUNGARY LUKEHGOURG LIECHTENSTEIN CEECHGSLOVARIA HUNGARY LUKEHGOURG LIECHTENSTEIN CEECHGSLOVARIA HUNGARY LUKEHGOURG LOURGHA RUSSIAN FEDERATION LIECHTENSTEIN CEECHGSLOVARIA HUNGARY LUKEHGOURG LOURGHA HUNGARY LUKEHGOURG LOURGHA RESION ARGENTINA | | | | | 1 | | 1 | | 1 | | | | | | | 1 | |
| FINLAND NEW ZEALAND 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | 1 | | - | | | | | | | | | | | | |
| SATIN SOUTH AFRICA | | | | | | | | | | 1 | | | | | | | |
| SUTH AFRICA INDOMESIA CHINA, HONG KONG S.A.R BRAZIL RUSSIAN FEDERATION LIECTRINSTEIN CZECHOSLOVARIA HUNGARY LUXEMBOURG IRELAND ARCENTINA ARCENTINA MEXICO THAILAND GRRECC CHILE PERU OCHORS (3) WHINGARY CHILE PERU OCHORS (3) WHINGARY CHILE PERU CHILE RI CHILA RI | NEW ZEALAND | | | | 1 | | | | | | | | | | | 1 | 0 |
| INDONESIA | SPAIN | | | | | | | | 1 | | | | | | | | 0 |
| CHINA,HONG KONG S.A.R BRAZIL RUSSIAN FEDERATION LIECHTENSTEIN CZECHOSLOVARIA HUNGARY LUXEMBOURG IRBLAND ARGENTINA MEXICO GREECE CHILE GREECE GREECE CHILE GREECE GREECE CHILE GREECE | SOUTH AFRICA | | | | | | | | | | | | | | | | 0 |
| BRAZIL RUSSIAN FEDERATION LIECHFENSTEIN CZECHOSLOVAKIA HUNGARY LULEMBOURG IRELAND ARGENTINA MEXICO THAILAND GRECE CHILLE CHILLE PERU OCHERS (3) WORSTSIN: WO | | | | | | | | | | 1 | | | | | | | |
| RUSSIAN FEDERATION LICHTENSTEIN CZECHOSLOVAKIA HUNGARY LUKEMBOURG IRELAND ARGENTINA ARGENTINA MEXICO THAILAND CHILE PERU CGREECE CHILE PERU COCHILE PERU COCHILE PERU COCHILE PERU COCHILE PERU COCHILE PERU COCHICA PERU COC | | | | | | | | | | | | | | | | | |
| LIECHTENSTEIN CZECHOSLOVAKIA HUNGARY LUXEMBOURG IRELAND ARGENTINA MEXICO THAILAND GREECE CHILE PERU Others (3) WHETShip: U.S. Corporations 61 52 52 50 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 13 16 16 16 17 13 16 14 16 16 12 13 15 12 9 14 Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | | | | | | |
| CZECHOSLOVAKIA HUNGARY LUXEMBOURG LIXELAND ARGENTINA ARGENTINA ARGENTAND MEXICO GREECE CHILE PERU COthers (3) WENTSO TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | | | | |
| LUXEMBOURG IRELAND ARGENTINA MEXICO THAILAND GREECE CHILE PERU Others (3) VINCE U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Corporations 1 1 1 1 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 0 1 1 1 0 | | | | | | | | | | | | | | | | | |
| IRELAND ARGENTINA MEXICO THAILAND GREECE CHILE PERU Others (3) WORTHSHIP: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 13 16 16 16 17 13 16 16 16 17 13 16 16 16 17 18 18 19 18 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | | | | | | | | | | | | | | | | | 0 |
| ARGENTINA MEXICO THAILAND GRECCE CHILE PERU Others (3) WHERSHIP: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | LUXEMBOURG | | | | | | | | | | | | | | | | 0 |
| MEXICO THAILAND GRECE CHILE PERU Others (3) Whership: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 13 16 16 16 17 13 16 14 16 16 12 13 15 12 9 14 Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 1 1 0 0 | | | | | | | | | | | | | | | | | |
| ## CAPILAND GREECE CHILE PERU Others (3) Whership: U.S. Corporations 61 52 52 50 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 13 16 16 16 17 13 16 14 16 16 12 13 15 12 9 14 Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | 1 | | | | | | | | |
| GREECE CHILE PERU Others (3) Whership: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government U.S. Individuals 13 16 16 16 17 13 16 14 16 16 12 13 15 12 9 14 Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 1 1 0 | | | | | | | | | | | | | | | | | |
| CHILE PERU Others (3) Winership: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government 1 1 1 | | | | | | | | | | | | | | | | | |
| PERU Others (3) Winership: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government 1 1 1 | | | | | | | | | | | | | | | | | |
| whership: U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government 1 1 1 | | | | | | | | | | | | | | | | | |
| U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government 1 1 1 | Others (3) | | | | | | | | | | | | | | | | 0 |
| U.S. Corporations 61 52 52 50 51 52 47 48 52 48 53 55 48 51 49 55 U.S. Government 1 1 1 | | | | | | | | | | | | | | | | | |
| U.S. Government | | | | | | | | | | | | | | | | | |
| U.S. Individuals 13 16 16 16 17 13 16 14 16 16 12 13 15 12 9 14 Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 1 1 1 | | 61 | 52 | 52 | 50 | 51 | | | 48 | 52 | 48 | 53 | 55 | 48 | | | |
| Foreign Corporations 21 29 27 29 30 31 32 35 30 33 33 31 35 34 38 28 Foreign Government 1 1 1 1 1 0 | | 13 | 16 | 16 | 16 | 17 | | | 14 | 16 | 16 | 12 | 13 | 15 | | | |
| Foreign Government 1 1 1 1 1 0 | | - 13 | | | | _, | | | | | | | | | | | |
| | Foreign Corporations | 21 | 29 | 27 | 29 | 30 | 31 | 32 | 35 | 30 | 33 | 33 | 31 | 35 | 34 | 38 | 28 |
| Foreign Individuals 4 2 4 4 3 3 4 3 2 3 2 1 2 2 4 3 | _ | | | 1 | | | 1 | | | | | | | | | | 0 |
| | Foreign Individuals | 4 | 2 | 4 | 4 | 3 | 3 | 4 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 4 | 3 |

Part A2 Patent Grants As Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2001) ----

| | | | | | | N | UMBER C | F PATENT | ED APPLI | CATIONS | | | | | | - |
|---|-----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|---------|--------|--------|------|----------|-----------|
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 Tot | :al |
| | | | | | | | | | | | | | | | | |
| Total | 4077 | 304 | 366 | 345 | 357 | 350 | 338 | 404 | 399 | 414 | 331 | 321 | 207 | 59 | | 272 |
| U.S. Origin | 2925 | 192 | 232 | 216 | 217 | 224 | 210 | 253 | 236 | 271 | 201 | 192 | 129 | 39 | | 37 |
| Foreign Origin | 1152 | 112 | 134 | 129 | 140 | 126 | 128 | 151 | 163 | 143 | 130 | 129 | 78 | 20 | 27 | 35 |
| | | | | | | | | | | | | | | | | |
| JAPAN | 383 | 45 | 76 | 68 | 65 | 64 | 60 | 73 | 81 | 75 | 68 | 61 | 43 | 7 | | .69 |
| GERMANY | 222 | 10 | 15 | 18 | 17 | 12 | 16 | 17 | 17 | 16 | 13 | 10 | 6 | 3 | | 392 |
| UNITED KINGDOM | 153 | 19 | 12 | 8 | 9 | 13 | 13 | 11 | 11 | 11 | 5 | 10 | 2 | 1 | | 278 |
| FRANCE | 72 | 8 | 5 | 10 | 7 9 | 6 | 7 | 9 | 16 | 8 7 | 4 | 9 | 3 | 2 | | .66 |
| CANADA | 57 | 7 | 7 | 7 | - | 6 | 7 | 7 | 6 | - | 8 | 6 | 6 | 2 | - | .42 |
| ITALY NETHERLANDS | 29 47 | 3 6 | 3 1 | 1 5 | 3 4 | 4 5 | 4 | 11 2 | 16 | 3 1 | 10 3 | 4 | 5 1 | 1 | | 97 81 |
| | | 5 | 5 | 2 | | | 1 | 5 | 4 | 2 | 3 1 | 1 | 1 | - | | 76 |
| SWITZERLAND SWEDEN | 42 | | 3 | 3 | 2 | 4 1 | 3 2 | 1 | 1 4 | 3 | 3 | 2 2 | 2 | 1 | | |
| AUSTRALIA | 44 17 | 1 1 | 2 | 2 | 6 | 1 | 2 | 2 | 4 | 3 | 1 | 4 | 1 | 2 | | 72 38 |
| DENMARK | 14 | 1 | 1 | 1 | 3 | т | 2 | 2 | 2 | 3 | 1 | 2 | 1 | 4 | | 31 |
| ISRAEL | 9 | 3 | 1 | 1 | 3 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 1 | | | 27 |
| SOUTH KOREA | , | 3 | _ | _ | 1 | 1 | 3 | 2 | 4 | 4 | 4 | 9 | 1 | | | 24 |
| AUSTRIA | 8 | | | | 2 | 3 | 1 | | | 3 | 1 | 2 | 1 | | | 21 |
| TAIWAN | 2 | | 1 | | 2 | 2 | 2 | | | 1 | _ | 3 | 5 | | | 18 |
| BELGIUM | 11 | 2 | - | 2 | _ | _ | _ | | | _ | 1 | 1 | - | | | 17 |
| NORWAY | 13 | _ | | = | | 1 | | | 1 | | = | 1 | | | | 16 |
| FINLAND | 5 | 1 | | 1 | 1 | 1 | 1 | 2 | _ | | | _ | | | | 12 |
| NEW ZEALAND | 5 | 1 | 1 | | | 1 | | 1 | | | 2 | | | 1 | | 12 |
| SPAIN | 1 | | | | 1 | | 1 | 1 | 1 | | 1 | | | | | 6 |
| SOUTH AFRICA | 3 | | | | 1 | | | | | | 1 | | | | | 5 |
| INDONESIA | 1 | | | | 1 | | 1 | 1 | | | | | | | | 4 |
| CHINA, HONG KONG S.A | .R 1 | | | | | 1 | | | | | | 2 | | | | 4 |
| BRAZIL | 2 | | | | | | | | 1 | | | | | | | 3 |
| RUSSIAN FEDERATION | | | | | | | 1 | 1 | | | | 1 | | | | 3 |
| CZECHOSLOVAKIA | 2 | | | | | | | | | | | | | | | 2 |
| HUNGARY | 2 | | | | | | | | | | | | | | | 2 |
| LUXEMBOURG | 2 | | | | | | | | | | | | | | | 2 |
| IRELAND | | | 1 | | | | 1 | | | | | | | | | 2 |
| ARGENTINA | | | | | 1 | | 1 | | | | | | | | | 2 |
| MEXICO | 1 | | | | | | | 1 | | | | | | | | 2 |
| LIECHTENSTEIN | 1 | | | | | | | 1 | | | | | | | | 2 |
| PORTUGAL | 1 | | | | _ | | | | | | | | | | | 1 |
| THAILAND | | | | | 1 | | | | | | | | | | | 1 |
| PERU | _ | | | | 1 | | | | | | | | | | | 1 |
| GREECE | 1 | | | | | | | | | | | | | | | 1 |
| Others (3) | 1 | | | | | | | | | | 1 | 1 | | | | 3 |
| Ownership: | | | | | | | | | | | | | | | | |
| U.S. Corporations | 2447 | 144 | 177 | 164 | 175 | 168 | 177 | 210 | 193 | 213 | 168 | 152 | 102 | 35 | 41 | 525 |
| U.S. Government | 10 | 111 | 1 | 4 | 1/3 | 1 | 3 | 210 | 2 | 3 | 100 | 1 | 102 | 1 | 4: | 28 |
| U.S. Individuals | 553 | 58 | 57 | 53 | 50 | 57 | 40 | 54 | 50 | 62 | 35 | 41 | 29 | 4 | 1. | .43 |
| J.D. Individuals | 333 | 50 | 3, | 33 | 50 | 5, | -10 | 31 | 50 | 02 | 33 | 11 | 2, | - | 1. | |
| | | | | | | | | | | | | | | | | |
| Foreign Corporations | 912 | 91 | 112 | 110 | 119 | 115 | 109 | 130 | 148 | 128 | 120 | 119 | 66 | 19 | 2: | 298 |
| Foreign Corporations Foreign Government | 912 10 | 91 2 | 112 3 | 110 1 | 119 2 | 115 1 | 109 1 | 130 | 148 1 | 128 2 | 120 | 119 | 66 | 19 | 2: | 298 23 |

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2001) ----

| | | | | _ | | | | | | | | | | | | |
|------------------------|--|------|------|------|------|------|------|------|------|--------|------|--------|------|------|------|--------|
| | Pre 1988 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 Total 100 100 100 100 100 100 100 100 100 10 | | | | | | | | | | | | | | | |
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | Total |
| | | | | | | | | | | | | | | | | |
| Total | | 100 | 100 | | 100 | 100 | | 100 | 100 | | 100 | 100 | 100 | 100 | | |
| U.S. Origin | 72 | 63 | 63 | 63 | 61 | 64 | 62 | 63 | 59 | 65 | 61 | 60 | 62 | 66 | | 67 |
| Foreign Origin | 28 | 37 | 37 | 37 | 39 | 36 | 38 | 37 | 41 | 35 | 39 | 40 | 38 | 34 | | 33 |
| | | | | | | | | | | | | | | | | |
| JAPAN | 9 | 15 | 21 | 20 | 18 | 18 | 18 | 18 | 20 | 18 | 21 | 19 | 21 | 12 | | 14 |
| GERMANY | 5 | 3 | 4 | 5 | 5 | 3 | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 5 | | 5 |
| UNITED KINGDOM | 4 | 6 | 3 | 2 | 3 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | | 3 |
| FRANCE | 2 | 3 | 1 | 3 | 2 | 2 | 2 | 2 | 4 | 2 | 1 | 3 | 1 | 3 | | 2 |
| CANADA | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | | 2 |
| ITALY | 1 | 1 | 1 | | 1 | 1 | 1 | 3 | 4 | 1 | 3 | 1 | 2 | 2 | | 1 |
| NETHERLANDS | 1 | 2 | | 1 | 1 | 1 | | | 1 | | 1 | | | | | 1 |
| SWITZERLAND | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | _ | | _ | 1 | _ | 2 | | 1 |
| SWEDEN | 1 | | 1 | 1 | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | | | 1 |
| AUSTRALIA | | | 1 | 1 | 2 | | | | _ | 1 | | _ | | 3 | | 0 |
| DENMARK | | | | | 1 | | 1 | | 1 | 1 | | 1 | | | | 0 |
| ISRAEL | | 1 | | | | | - | | 1 | 1 | 1 | 1 | | | | 0 0 |
| SOUTH KOREA AUSTRIA | | | | | 1 | - | 1 | | | 1 1 | 1 | 3 | | | | 0 |
| AUSTRIA TAIWAN | | | | | 1 | 1 | 1 | | | 1 | | 1 1 | 2 | | | 0 |
| BELGIUM | | 1 | | 1 | _ | 1 | 1 | | | | | _ | 2 | | | 0 |
| NORWAY | | _ | | _ | | | | | | | | | | | | 0 |
| FINLAND | | | | | | | | | | | | | | | | 0 |
| NEW ZEALAND | | | | | | | | | | | 1 | | | 2 | | 0 |
| SPAIN | | | | | | | | | | | _ | | | 2 | | 0 |
| SOUTH AFRICA | | | | | | | | | | | | | | | | 0 |
| INDONESIA | | | | | | | | | | | | | | | | 0 |
| CHINA, HONG KONG S.A. | P | | | | | | | | | | | 1 | | | | 0 |
| BRAZIL | | | | | | | | | | | | _ | | | | 0 |
| RUSSIAN FEDERATION | | | | | | | | | | | | | | | | 0 |
| CZECHOSLOVAKIA | | | | | | | | | | | | | | | | 0 |
| HUNGARY | | | | | | | | | | | | | | | | 0 |
| LUXEMBOURG | | | | | | | | | | | | | | | | 0 |
| IRELAND | | | | | | | | | | | | | | | | 0 |
| ARGENTINA | | | | | | | | | | | | | | | | 0 |
| MEXICO | | | | | | | | | | | | | | | | 0 |
| LIECHTENSTEIN | | | | | | | | | | | | | | | | 0 |
| PORTUGAL | | | | | | | | | | | | | | | | 0 |
| THAILAND | | | | | | | | | | | | | | | | 0 |
| PERU | | | | | | | | | | | | | | | | 0 |
| GREECE | | | | | | | | | | | | | | | | 0 |
| Others (3) | | | | | | | | | | | | | | | | 0 |
| | | | | | | | | | | | | | | | | |
| Ownership: | | | | | | | | | | | | | | | | |
| U.S. Corporations | 60 | 47 | 48 | 48 | 49 | 48 | 52 | 52 | 48 | 51 | 51 | 47 | 49 | 59 | | 55 |
| U.S. Government | | | | 1 | | | 1 | | 1 | 1 | | | | 2 | | 0 |
| U.S. Individuals | 14 | 19 | 16 | 15 | 14 | 16 | 12 | 13 | 13 | 15 | 11 | 13 | 14 | 7 | | 14 |
| | | | | | | | | | | | | | | | | |
| Foreign Corporations | 22 | 30 | 31 | 32 | 33 | 33 | 32 | 32 | 37 | 31 | 36 | 37 | 32 | 32 | | 28 |
| Foreign Government | | 1 | 1 | | 1 | | | | | | | | | | | 0 |
| Foreign Individuals | 4 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 5 | | | 3 |
| | | | | | | | | | | | | | | | | |

Part B

Ranked Listing of Organizations with Patent Grants
As Distributed By Year of Patent Grant
and As Distributed By Year of Patent Application

REISSUE PATENTS, 1977-2001

| Organizational Patenting | | | | (Grante | ed: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | F | Ranked Li | st of Or | ganizati | ons with | 5 or 1 | More Pat | cents |
|---|-------------|--------|--------|---------|-----------|---------|----------|---------|--------|-----------|----------|----------|----------|--------|----------|-------|
| | | | | | | | | | | | | | | | | |
| | Pre | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| HITACHI, LTD | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 19 | 2 | 11 | 13 | 7 | 7 | 13 | 4 | 4 | 3 | 4 | 7 | 0 | 7 | 7 | 108 |
| Patents By Year of Application: | 38 | 4 | 15 | 10 | 14 | 8 | 1 | 1 | 4 | 7 | 2 | 1 | 3 | 0 | 0 | 108 |
| | | | | | | | | | | | | | | | | |
| GENERAL ELECTRIC COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 37 | 2 | 1 | 3 | 6 | 5 | 8 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 0 | 76 |
| Patents By Year of Application: | 42 | 0 | 7 | 5 | 7 | 2 | 2 | 4 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 76 |
| | | | | | | | | | | | | | | | | |
| AT&T CORP. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 35 | 2 | 4 | 4 | 5 | 1 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 60 |
| Patents By Year of Application: | 45 | 1 | 4 | 1 | 1 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 60 |
| MINNESOTA MINING AND MANUFACTURING CO | MDANV | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | MPAN1 22 | 0 | 1 | 4 | 0 | 1 | 2 | 3 | 7 | 2 | 5 | 1 | 4 | 2 | 1 | 55 |
| Patents By Year of Application: | 24 | 3 | 2 | 2 | 1 | 5 | 5 | 4 | 2 | 3 | 3 | 0 | 1 | 0 | 0 | 55 |
| ratement by rear or approaches. | | - | - | - | - | J | - | - | - | , | , | · | - | · | · | 33 |
| INTERNATIONAL BUSINESS MACHINES CORPO | RATION | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 20 | 0 | 0 | 1 | 1 | 7 | 0 | 2 | 1 | 3 | 1 | 0 | 6 | 5 | 5 | 52 |
| Patents By Year of Application: | 22 | 2 | 4 | 2 | 4 | 0 | 1 | 3 | 4 | 6 | 2 | 1 | 1 | 0 | 0 | 52 |
| | | | | | | | | | | | | | | | | |
| E. I. DU PONT DE NEMOURS AND COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 32 | 0 | 2 | 0 | 2 | 1 | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 1 | 3 | 47 |
| Patents By Year of Application: | 35 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 47 |
| | | | | | | | | | | | | | | | | |
| MITSUBISHI DENKI KABUSHIKI KAISHA | _ | _ | _ | _ | _ | _ | | _ | | _ | | | _ | | | 4- |
| Patents By Year of Grant: | 2 5 | 1 2 | 1 2 | 5 4 | 2 5 | 1 5 | 3 4 | 6 1 | 2 6 | 3 6 | 4 | 1 3 | 7 0 | 9 0 | 0 | 47 |
| Patents By Year of Application: | 5 | 2 | 2 | 4 | 5 | 5 | 4 | 1 | 6 | 6 | 4 | 3 | U | U | U | 47 |
| EASTMAN KODAK COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 32 | 2 | 0 | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 5 | 0 | 1 | 0 | 46 |
| Patents By Year of Application: | 34 | 1 | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 46 |
| | | | | | | | | | | | | | | | | |
| MATSUSHITA ELECTRIC INDUSTRIAL CO., L' | TD. | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 2 | 1 | 3 | 2 | 4 | 7 | 9 | 41 |
| Patents By Year of Application: | 8 | 1 | 3 | 0 | 1 | 1 | 3 | 5 | 3 | 5 | 3 | 4 | 4 | 0 | 0 | 41 |
| | | | | | | | | | | | | | | | | |
| BAYER AKTIENGESELLSCHAFT | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 20 | 3 | 2 | 2 | 1 | 2 | 0 | 3 | 1 | 0 | 0 | 1 | 1 | 2 | 2 | 40 |
| Patents By Year of Application: | 26 | 1 | 2 | 0 | 1 | 1 | 3 | 0 | 2 | 0 | 1 | 0 | 2 | 1 | 0 | 40 |
| GONY, GODDODAMION | | | | | | | | | | | | | | | | |
| SONY CORPORATION Patents By Year of Grant: | 8 | 1 | 0 | 4 | 2 | 0 | 0 | 3 | 1 | 2 | 1 | 2 | 1 | 7 | 6 | 38 |
| Patents By Year of Application: | 9 | 2 | 4 | 0 | 1 | 1 | 4 | 5 | 3 | 3 | 3 | 1 | 2 | 0 | 0 | 38 |
| racence of real of Application: | , | 4 | - | J | - | _ | - | , | , | , | , | - | | v | v | 35 |

| REISSUE PAIENIS, 1977-2001 | | | | | | | | | | | | | | | rage | Б - 2 |
|-------------------------------------|------|------|------|---------|-----------|---------|----------|---------|------|----------|----------|----------|----------|--------|----------|-------|
| Organizational Patenting | | | | (Grante | ed: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | . 5 or | More Pat | ents |
| | | | | | | • | | | | | | | | | | |
| | Pre | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| CANON KABUSHIKI KAISHA | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 15 | 0 | 0 | 3 | 2 | 1 | 1 | 1 | 2 | 4 | 1 | 0 | 3 | 4 | 0 | 37 |
| Patents By Year of Application: | 17 | 2 | 2 | 2 | 1 | 2 | 3 | 0 | 4 | 1 | 3 | 0 | 0 | 0 | 0 | 37 |
| racence by rear or apprication. | Ξ, | - | _ | | _ | _ | 3 | Ū | - | _ | 3 | Ū | v | Ū | Ů | 37 |
| TOSHIBA CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 3 | 1 | 1 | 5 | 4 | 11 | 4 | 36 |
| Patents By Year of Application: | 3 | 0 | 1 | 1 | 0 | 2 | 4 | 2 | 7 | 2 | 5 | 7 | 1 | 1 | 0 | 36 |
| CATERPILLAR INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 26 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 33 |
| Patents By Year of Application: | 26 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 33 |
| U.S. PHILIPS CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 18 | 0 | 2 | 0 | 1 | 4 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 32 |
| Patents By Year of Application: | 19 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| MICRON TECHNOLOGY, INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 8 | 8 | 8 | 3 | 30 |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 21 | 0 | 0 | 0 | 0 | 0 | 30 |
| RCA CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Patents By Year of Application: | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| ASAHI KOGAKU KOGYO KABUSHIKI KAISHA | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 5 | 2 | 1 | 5 | 6 | 0 | 29 |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 3 | 1 | 1 | 6 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 29 |
| DOW CHEMICAL COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 17 | 2 | 1 | 1 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 28 |
| Patents By Year of Application: | 20 | 1 | 1 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 |
| EATON CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 20 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 28 |
| Patents By Year of Application: | 21 | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 28 |
| FUJITSU LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 1 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 2 | 4 | 5 | 7 | 27 |
| Patents By Year of Application: | 4 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 6 | 7 | 1 | 3 | 0 | 0 | 27 |
| XEROX CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 15 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 25 |
| Patents By Year of Application: | 19 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 25 |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or 1 | More Pat | ents | |
|---------------------------------------|------|------|------|---------|----------|---------|----------|---------|------|----------|----------|----------|----------|--------|----------|-------|--|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| NIKON CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 3 | 2 | 4 | 5 | 24 | |
| Patents By Year of Application: | 5 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 4 | 4 | 1 | 3 | 2 | 0 | 0 | 24 | |
| RICOH COMPANY, LTD. | | • | - | • | • | | - | • | • | 0 | • | • | 2 | • | | 0.4 | |
| Patents By Year of Grant: | 4 | 0 | 1 | 2 | 0 | 1 | 1 | 0 | 2 | • | 2 | 0 | 3 | 2 | 6 | 24 | |
| Patents By Year of Application: | 4 | 3 | 2 | 0 | 1 | 1 | 0 | 3 | 0 | 4 | 3 | 1 | 2 | 0 | 0 | 24 | |
| MOTOROLA, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 12 | 2 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 22 | |
| Patents By Year of Application: | 14 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 22 | |
| TEXAS INSTRUMENTS, INCORPORATED | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 2 | 2 | 0 | 0 | 1 | 3 | 0 | 22 | |
| Patents By Year of Application: | 8 | 2 | 3 | 2 | 0 | 1 | 1 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 22 | |
| ALLIED-SIGNAL INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 11 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 19 | |
| Patents By Year of Application: | 13 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| ELI LILLY AND COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 17 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| Patents By Year of Application: | 17 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| MOBIL OIL CORP. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 12 | 0 | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 19 | |
| Patents By Year of Application: | 13 | 1 | 1 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| NEC CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 9 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 2 | 19 | |
| Patents By Year of Application: | 10 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 0 | 19 | |
| SGS-THOMSON MICROELECTRONICS S.R.L. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 8 | 3 | 3 | 2 | 0 | 19 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 6 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 19 | |
| MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 1 | 3 | 18 | |
| Patents By Year of Application: | 7 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 18 | |
| MINOLTA CAMERA CO., LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 2 | 1 | 0 | 1 | 4 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 18 | |
| Patents By Year of Application: | 7 | 2 | 0 | 1 | 4 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31, | 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | - |
|---|----------|--------|------|---------|----------|---------|-----------|-------|------|----------|----------|----------|----------|------|----------|----------|---|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| UNISYS CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 17 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | |
| Patents By Year of Application: | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | |
| racenes by rear or application. | _, | J | _ | v | Ū | Ū | Ū | Ū | J | Ū | v | Ū | v | U | Ū | 10 | |
| UNITED TECHNOLOGIES CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 10 | 0 | 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 18 | |
| Patents By Year of Application: | 10 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 18 | |
| | | | | | | | | | | | | | | | | | |
| BASF AKTIENGESELLSCHAFT | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 2 | 1 | 2 | 0 | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 17 | |
| Patents By Year of Application: | 7 | 2 | 1 | 2 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| | | | | | | | | | | | | | | | | | |
| EXXON RESEARCH + ENGINEERING CO. | 10 | • | | | • | • | • | • | | • | | • | • | • | | | |
| Patents By Year of Grant: Patents By Year of Application: | 10 11 | 0 1 | 1 | 1 0 | 0 | 0 | 0 2 | 0 | 1 | 0 | 1 | 0 3 | 0 | 0 | 3 0 | 17 17 | |
| Patents By Year of Application: | 11 | 1 | U | U | U | U | 2 | U | U | U | U | 3 | U | U | U | 17 | |
| HONEYWELL INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 3 | 0 | 17 | |
| Patents By Year of Application: | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 17 | |
| | | | | | | | | | | | | | | | | | |
| IMPERIAL CHEMICAL INDUSTRIES PLC | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 2 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 17 | |
| Patents By Year of Application: | 9 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| | | | | | | | | | | | | | | | | | |
| PHILLIPS PETROLEUM COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 13 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| Patents By Year of Application: | 13 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| SEIKO EPSON CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 3 | 2 | 0 | 1 | 2 | 4 | 1 | 17 | |
| Patents By Year of Application: | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 3 | 1 | 3 | 1 | 2 | 0 | 0 | 0 | 17 | |
| racenes by rear or approactor. | Ū | - | - | - | - | · · | • | J | - | 3 | - | - | v | v | · · | -, | |
| UNION CARBIDE CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| Patents By Year of Application: | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| | | | | | | | | | | | | | | | | | |
| AMERICAN CYANAMID COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 10 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 16 | |
| Patents By Year of Application: | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 16 | |
| | | | | | | | | | | | | | | | | | |
| AMP INCORPORATED | | _ | _ | _ | _ | • | • | _ | _ | _ | • | • | _ | _ | _ | | |
| Patents By Year of Grant: | 12 14 | 1 | 0 | 2 | 0 | 0 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 16 | |
| Patents By Year of Application: | 14 | U | 1 | U | U | 1 | U | U | U | U | U | U | U | U | U | 16 | |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | F | Ranked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | - |
|---------------------------------------|----------|--------|------|---------|----------|----------|----------|---------|------|-----------|----------|----------|----------|------|----------|-------|---|
| | | | | | | | | | | | | | | | | | |
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| BAXTER INTERNATIONAL INC. | | • | | • | | | | _ | • | • | | _ | | | _ | | |
| Patents By Year of Grant: | 11 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 16 | |
| Patents By Year of Application: | 13 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | |
| NIDDON GANAL GELGO ASDAGALAL ASTONS | | | | | | | | | | | | | | | | | |
| NIPPON GAKKI SEIZO KABUSHIKI KAISHA | 1.2 | - | 2 | 0 | 0 | • | • | 0 | 0 | • | • | • | • | 0 | 0 | 16 | |
| Patents By Year of Grant: | 13 | 1 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 0 | 0 | 0 | 16 | |
| Patents By Year of Application: | 16 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | 16 | |
| OLYMPUS OPTICAL CO., LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 1 | 0 | 1 | 0 | 2 | 1 | 3 | 16 | |
| | 2 | 0 | 1 | 3 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 3 | 0 | 0 | 16 | |
| Patents By Year of Application: | 4 | U | 1 | 3 | 3 | U | | U | | U | | | 3 | U | U | 10 | |
| WESTINGHOUSE ELECTRIC CORP. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 13 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 16 | |
| Patents By Year of Application: | 14 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | |
| ratenes by rear or apprication: | 11 | | U | U | | U | U | U | U | U | U | · · | U | U | U | 10 | |
| YAMAHA HATSUDOKI KABUSHIKI KAISHA, YA | мана мот | OR CO. | T.TD | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 2 | 16 | |
| Patents By Year of Application: | 5 | 0 | 2 | 0 | 1 | 3 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 16 | |
| racenes by rear or approaction. | | • | - | • | - | <u> </u> | · · | , | • | • | | - | | • | • | 10 | |
| DOW CORNING CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 15 | |
| Patents By Year of Application: | 7 | 1 | 1 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | |
| | | | | | | | | | | | | | | | | | |
| GENERAL MOTORS CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 1 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 15 | |
| Patents By Year of Application: | 4 | 1 | 1 | 2 | 2 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 15 | |
| | | | | | | | | | | | | | | | | | |
| DEERE + COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 12 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | |
| Patents By Year of Application: | 13 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | |
| | | | | | | | | | | | | | | | | | |
| NISSAN MOTOR COMPANY, LIMITED | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 14 | |
| Patents By Year of Application: | 8 | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | |
| | | | | | | | | | | | | | | | | | |
| OUTBOARD MARINE CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 14 | |
| Patents By Year of Application: | 10 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | |
| | | | | | | | | | | | | | | | | | |
| ROBERT BOSCH GMBH | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 9 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 14 | |
| Patents By Year of Application: | 11 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 14 | |
| | | | | | | | | | | | | | | | | | |

REISSUE PATENTS, 1977-2001

| REISSUE PATENTS, 1977-2001 | | | | | | | | | | | | | | | Page | в - 6 |
|---|------|------|------|---------|----------|---------|----------|---------|------|-----------|----------|----------|----------|------|----------|-------|
| Ourself and I had an idea | | | | (| 1 7 0 | 1 1000 | D 21 | 0001) | _ | | | | | F | | |
| Organizational Patenting | 3 | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Lis | st of Or | ganızatı | ons with | 5 or | More Pat | cents |
| | Pre | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| | | | | | | | | | | | | | | | | |
| ROCKWELL INTERNATIONAL CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 14 |
| Patents By Year of Application: | 12 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 14 |
| | | | | | | | | | | | | | | | | |
| CIBA-GEIGY CORPORATION Patents By Year of Grant: | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| Patents By Year of Application: | 8 | 0 | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| racenes by rear or application. | · | Ū | _ | Ū | Ū | _ | - | _ | Ū | Ū | Ū | Ū | v | · | Ū | 15 |
| FUJI PHOTO FILM CO., LTD | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 13 |
| Patents By Year of Application: | 7 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 13 |
| | | | | | | | | | | | | | | | | |
| HONDA GIKEN KOGYO KABUSHIKI KAISHA (| - | - | - | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 5 | 1 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 13 |
| Patents By Year of Application: | 3 | 3 | 4 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| MONSANTO COMPANY, INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 9 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 13 |
| Patents By Year of Application: | 10 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 13 |
| | | | | | | | | | | | | | | | | |
| PROCTER + GAMBLE COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 0 | 0 | 0 | 2 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 13 |
| Patents By Year of Application: | 5 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 13 |
| SGS-THOMSON MICROELECTRONICS S.A. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 1 | 1 | 4 | 2 | 0 | 13 |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 13 |
| | | | | | | | | | | | | | | | | |
| SIEMENS AKTIENGESELLSCHAFT | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 0 | 13 |
| Patents By Year of Application: | 8 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 13 |
| | | | | | | | | | | | | | | | | |
| LUCENT TECHNOLOGIES INC. | 0 | • | 0 | 0 | • | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | 5 | 4 | 12 |
| Patents By Year of Grant: Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 3 | 1 | 1 1 | 1 1 | 1 | 4 0 | 12 |
| received by rear or impriredction. | J | · | J | J | Ū | Ū | v | 3 | - | • | - | - | • | - | 3 | |
| VICTOR COMPANY OF JAPAN, LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 0 | 3 | 0 | 12 |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 12 |
| | | | | | | | | | | | | | | | | |
| YAMAHA CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 4 | 12 |

12

Patents By Year of Application:

| | | | | | | | | | | | | | | | _ | | |
|---|--------|--------|------|---------|----------|---------|----------|---------|------|----------|----------|----------|----------|--------|----------|----------|--|
| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or 3 | More Pat | ents | |
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| DANA CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 1 | 1 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 11 | |
| Patents By Year of Application: | 6 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 11 | |
| HOECHST AKTIENGESELLSCHAFT | _ | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 2 | 2 | 2 | 0 | 1 | 0 | 0 | 0 | 11 | |
| Patents By Year of Application: | 6 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 | O | 0 | 0 | 0 | 0 | 0 | 11 | |
| HOFFMANN-LA ROCHE INC. | | 0 | 0 | • | 0 | 1 | 0 | 0 | 1 | • | 0 | 0 | 0 | 1 | 0 | 11 | |
| Patents By Year of Grant: | 8 8 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 11 11 | |
| Patents By Year of Application: MOLEX INCORPORATED | 8 | 0 | U | 1 | 0 | 1 | U | U | U | U | U | 1 | U | U | U | 11 | |
| Patents By Year of Grant: | 0 | 2 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 11 | |
| Patents By Year of Application: | 3 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 11 | |
| OLIN CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | |
| Patents By Year of Application: | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | |
| SCHLUMBERGER TECHNOLOGY CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | |
| Patents By Year of Application: | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | |
| SHARP KABUSHIKI KAISHA (SHARP CORPORAS | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 11 | |
| Patents By Year of Application: | 2 | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 11 | |
| SHELL OIL COMPANY | | | | - | | | | | | _ | _ | | | _ | • | | |
| Patents By Year of Grant: | 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 11 | |
| Patents By Year of Application: | 7 | 1 | Ü | 0 | 0 | U | O | 0 | 2 | Ü | 1 | 0 | 0 | U | 0 | 11 | |
| UPJOHN COMPANY | 8 | 0 | 1 | 1 | 0 | • | 0 | 0 | | 0 | 0 | • | • | 0 | 0 | 11 | |
| Patents By Year of Grant: | 8 | 2 | 1 | 1 | 0 | 0 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | |
| Patents By Year of Application: | 8 | 2 | U | U | U | 1 | U | U | U | U | U | U | U | U | U | 11 | |
| AMOCO CORPORATION | _ | | • | | | | • | | | | _ | • | • | | | 1.0 | |
| Patents By Year of Grant: | 7 | 0 1 | 0 | 0 | 0 | 0 | 2 | 0 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 10 10 | |
| Patents By Year of Application: MEDTRONIC INC. | 7 | T | U | U | U | 1 | U | 1 | U | U | U | U | U | U | U | 10 | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 10 | |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 10 | |
| racence by rear or Appricacion: | 0 | U | U | U | U | U | U | _ | 1 | U | 4 | U | U | U | U | 10 | |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | |
|--------------------------------------|------|------|------|---------|----------|---------|----------|---------|------|----------|----------|----------|----------|------|----------|-------|--|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| NATIONAL RESEARCH DEVELOPMENT CORPOR | | | • | • | _ | | _ | | • | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| Patents By Year of Application: | 6 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| OTIS ENGINEERING CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 9 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| Patents By Year of Application: | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| | | | | | | | | | | | | | | | | | |
| PAPST LICENSING GMBH & CO. KG | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 1 | 3 | 10 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 10 | |
| BETHLEHEM STEEL CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| BORG-WARNER CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| Patents By Year of Application: | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| BRISTOL-MYERS SQUIBB COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 9 | |
| Patents By Year of Application: | 6 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| BROTHER KOGYO KABUSHIKI KAISHA | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 9 | |
| Patents By Year of Application: | 2 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| CHEVRON RESEARCH & TECHNOLOGY CO. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 9 | |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| HEWLETT-PACKARD COMPANY | | | | | | | | | | | | | | | | | |
| | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | - | 1 | 1 | 0 | 9 | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 2 | 0 | 0 | 0 | 9 | |
| Patents By Year of Application: | 5 | U | U | U | U | U | U | 2 | U | U | U | 2 | U | U | U | 9 | |
| KONICA CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 9 | |
| Patents By Year of Application: | 1 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| ROHM AND HAAS COMPANY | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | | _ | _ | _ | |
| Patents By Year of Grant: | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 9 | |
| Patents By Year of Application: | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | |

REISSUE PATENTS, 1977-2001

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|------------------------------------|------|--------|--------|---------|----------|---------|----------|---------|---------------------------------------|-----------|----------|----------|----------|------|----------|-------|---|
| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | Ranked Li | st of Or | ganızatı | ons with | 5 or | More Pat | ents | • |
| | _ | | | | | | | | | | | | | | | | |
| | Pre | 1000 | 1000 | 1000 | 1001 | 1000 | 1000 | 1004 | 1005 | 1006 | 1005 | 1000 | 1000 | 0000 | 0001 | mom | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| SAMSUNG ELECTRONICS CO., LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 4 | 2 | 0 | 9 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| THOMAS + BETTS CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| TOYOTA JIDOSHA K.K. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 9 | |
| Patents By Year of Application: | 1 | 0 | 4 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| TRW INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| Patents By Year of Application: | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| | | | | | | | | | | | | | | | | | |
| ABBOTT LABORATORIES | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | |
| Patents By Year of Application: | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| racenes by rear or appricacion. | | • | - | • | • | | • | | - | • | | | • | | | ŭ | |
| ASAHI KASEI KOGYO KABUSHIKI KAISHA | | | | | | | | | | | | | | | | | |
| | 4 | - | • | • | • | - | 0 | • | 1 | • | - | • | • | • | • | 8 | |
| Patents By Year of Grant: | 4 | 1 0 | 0 1 | 0 | 0 | 1 0 | 0 | 0 | 1 0 | 0 | 1 0 | 0 | 0 0 | 0 | 0 | | |
| Patents By Year of Application: | 5 | U | 1 | 1 | U | U | U | 1 | U | U | U | U | U | U | U | 8 | |
| | | | | | | | | | | | | | | | | | |
| BOEING COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 8 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 8 | |
| | | | | | | | | | | | | | | | | | |
| CARRIER CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 8 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | | | | | | | | | | | | | | | | | |
| CORNING INCORPORATED | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 8 | |
| Patents By Year of Application: | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | | | | | | | | | | | | | | | | | |
| GIST-BROCADES N.V. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| Patents By Year of Application: | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | | | | | | | | | | | | | | | | | |
| GOODYEAR TIRE + RUBBER COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | |
| | - | - | | - | - | - | - | - | , , , , , , , , , , , , , , , , , , , | - | - | - | - | - | - | - | |

| REISSUE PAIENIS, 1977-2001 | | | | | | | | | | | | | | | rage | Б - 10 |
|-----------------------------------|-------------|------|------|---------|-----------|---------|----------|---------|------|-----------|----------|----------|----------|--------|----------|--------|
| Organizational Patenting | | | | (C | | 1 1077 | D-= 21 | 2001) | - | | | | | F | V D- | ents |
| Organizational Patenting | | | | (Grante | ea: Jan U | 1, 19// | - Dec 31 | , 2001) | , | kanked Li | st or or | ganizati | ons with | 5 OF . | more Pat | tents |
| | | | | | | | | | | | | | | | | |
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1007 | 1000 | 1999 | 2000 | 2001 | moma r |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| INTERNATIONAL PAPER CO. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 8 |
| Patents By Year of Application: | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 5 | U | 2 | U | U | U | U | U | U | U | U | _ | U | U | U | 0 |
| MEAD CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| ratents by rear or application: | 3 | _ | _ | U | U | U | U | _ | U | U | U | U | U | U | U | 0 |
| PAPST-MOTOREN KG | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 3 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| received by rear or importation. | - | • | 3 | - | · | J | · | J | J | - | Ū | · | · | v | J | Ü |
| R. J. REYNOLDS TOBACCO COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| | | | | | | | | | | | | | | | | |
| SANDERS ASSOCIATES INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| | | | | | | | | | | | | | | | | |
| STMICROELECTRONICS S.R.L. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 5 | 8 |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 1 | 0 | 2 | 0 | 0 | 8 |
| | | | | | | | | | | | | | | | | |
| SUWA SEIKOSHA CO., LTD. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Patents By Year of Application: | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| | | | | | | | | | | | | | | | | |
| AKZONA INCORPORATED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| | | | | | | | | | | | | | | | | |
| BP CHEMICALS LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 7 |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 7 |
| | | | | | | | | | | | | | | | | |
| BRUNSWICK CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Patents By Year of Application: | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| | | | | | | | | | | | | | | | | |
| EXXON PRODUCTION RESEARCH COMPANY | | | | | | | | | | | | | | | | _ |
| Patents By Year of Grant: | 4 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Patents By Year of Application: | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |

| Organizational Patenting | | | | (Grante | ed: Jan 0 | 1, 1977 | - Dec 31, | 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | • |
|---------------------------------------|--------|------|--------|---------|-----------|---------|-----------|-------|------|----------|----------|----------|----------|------|----------|--------|---|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| HALLIBURTON CO. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| HOBART CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| HUGHES AIRCRAFT COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| LG ELECTRONICS INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 7 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 7 | |
| MERCK + CO., INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 7 | |
| NIPPONDENSO CO., LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 1 | 0 | 0 | 7 | |
| Patents By Year of Application: | 1 | 0 | 0 | 1 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| OWENS-ILLINOIS INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| PITNEY-BOWES, INC. | _ | | | | | | | | | | | | | • | | _ | |
| Patents By Year of Grant: | 5 5 | 0 | 0 1 | 0 | 0 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 7 | |
| Patents By Year of Application: | | | | | | - | | U | U | U | U | U | U | U | U | , | |
| SECRETARY OF STATE FOR DEFENCE IN HER | | | | | | | | _ | _ | _ | _ | _ | | | _ | _ | |
| Patents By Year of Grant: | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | |
| Patents By Year of Application: | 3 | 1 | 0 | U | 0 | U | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | U | , | |
| STAUFFER CHEMICAL COMPANY | | | | | | | | | | | | | | | | _ | |
| Patents By Year of Grant: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| UNITED STATES OF AMERICA, NAVY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 7 | |
| Patents By Year of Application: | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 7 | |

| Organizational Patenting | _ | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31, | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | |
|---|--------|--------|------|---------|----------|---------|-----------|---------|------|----------|----------|----------|----------|------|----------|--------|--|
| | Pre | 1000 | 1000 | 1000 | 1001 | 1000 | 1002 | 1004 | 1005 | 1000 | 1007 | 1000 | 1000 | 2000 | 2001 | moma r | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| UNIVERSITY OF CALIFORNIA, THE REGENTS | - OF | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 3 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| racenes by rear or apprication. | , | _ | - | v | v | | J | J | J | Ū | v | Ū | v | U | Ū | , | |
| WARNER-LAMBERT COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| Patents By Year of Application: | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | |
| | | | | | | | | | | | | | | | | | |
| ADVANCED CARDIOVASCULAR SYSTEMS, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 1 | 1 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| | | | | | | | | | | | | | | | | | |
| ANALOG DEVICES, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 6 | |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | |
| | | | | | | | | | | | | | | | | | |
| ASAHI GLASS COMPANY, LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 6 | |
| Patents By Year of Application: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 0 | 0 | 6 | |
| | | | | | | | | | | | | | | | | | |
| B. F. GOODRICH CO. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| | | | | | | | | | | | | | | | | | |
| BAKER HUGHES INCORPORATED | | | | | | | _ | _ | | | | | _ | _ | _ | _ | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 6 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 6 | |
| DATE GODDODATION | | | | | | | | | | | | | | | | | |
| BALL CORPORATION | _ | • | • | | • | • | • | • | • | • | • | • | • | • | • | | |
| Patents By Year of Grant: Patents By Year of Application: | 5 5 | 0 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 6 | |
| Patents by Year Or Application: | 5 | | U | U | U | U | U | U | U | U | U | U | U | U | U | 0 | |
| BENDIX CORPORATION(NOW ALLIED-SIGNAL | TNC) | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| racenes by rear or approaches. | · · | • | v | • | · · | Ū | J | J | Ū | · · | • | · · | • | v | · | v | |
| BRITISH TELECOMMUNICATION, PLC | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 0 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| | - | - | _ | = | - | = | = | - | - | - | - | | - | - | | - | |
| CASCHEM, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 1 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| | | | | | | | | | | | | | | | | | |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31, | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or 1 | More Pat | tents |
|---------------------------------------|-------------|----------|----------|---------|----------|----------|-----------|---------|------|----------|----------|----------|----------|--------|----------|--------|
| | | | | | | | | | | | | | | | | |
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| | | | | | | | | | | | | | | | | |
| CASIO COMPUTER CO. LTD. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| Patents By Year of Application: | 0 | 1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| CITIZEN WATCH CO., LTD. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | - | - | - | • | | • | • | - | • | • | • | - | - | - | - |
| CPC INTERNATIONAL INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | | | | | | | | | | | | | | |
| FORD MOTOR COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 1 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| GENERAL SIGNAL CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 1400100 27 1041 01 11 | ŭ | · | • | • | | | • | | · | • | | | • | · | | • |
| HERCULES INCORPORATED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | | | | | | | | | | | | | | |
| J. M. HUBER CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| JOHNS-MANVILLE CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | | | | | | | | | | | | | | |
| L'AIR LIQUIDE, SOCIETE ANONYME POUR L | 'ETUDE E | T L'EXPL | OITATION | DES PRO | CEDES GE | ORGES CL | AUDE | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 6 |
| Patents By Year of Application: | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 6 |
| T THEORY OF CHARTES THE | | | | | | | | | | | | | | | | |
| LITTON SYSTEMS INC. | • | • | | • | • | | • | • | - | | • | • | • | • | | |
| Patents By Year of Application: | 2 3 | 0 | 1 0 | 0 | 0 1 | 1 0 | 0 1 | 0 1 | 1 | 1 0 | 0 | 0 | 0 | 0 | 0 | 6 6 |
| Patents By Year of Application: | 3 | U | U | U | | U | 1 | 1 | U | U | U | U | U | U | U | 0 |
| MOORE BUSINESS FORMS INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | | | | | | | | | | | | | | |

| Organizational Patenting | (Granted: Jan 01, 1977 - Dec 31, 2001) | Ranked List of Organizations with 5 or More Patents |
|--------------------------|--|---|

| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| NIPPON STEEL CORP. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| NORDSON CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| POLAROID CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| RHONE-POULENC AGROCHIMIE LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| SEAGATE TECHNOLOGY, INCORPORATED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 | 6 |
| Patents By Year of Application: | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
| SGS-THOMSON MICROELECTRONICS, INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 6 |
| Patents By Year of Application: | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| SHIMANO INDUSTRIAL COMPANY, LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| SINGER COMPANY | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| SMITH INTERNATIONAL INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 6 |
| Patents By Year of Application: | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 6 |
| STANFORD UNIVERSITY, LELAND JUNIOR, T | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 6 |
| Patents By Year of Application: | 2 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| UNITED STATES OF AMERICA, DEPARTMENT | OF ENERG | Y | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Patents By Year of Application: | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | |
|--|------|------|------|---------|----------|---------|----------|---------|------|----------|----------|----------|----------|------|----------|-------|--|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| USX CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| W. R. GRACE & COCONN. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Application: WESTVACO CORPORATION | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 6 | |
| 3M INNOVATIVE PROPERTIES COMPANY | 5 | U | U | U | U | U | U | U | U | U | 1 | U | U | U | U | 6 | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 5 | |
| AIR PRODUCTS AND CHEMICALS, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| AKZO N.V. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| AMPEX CORP. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| ATELIERS DES CHARMILLES S.A. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| ATLANTIC RICHFIELD COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| AUTOMOTIVE PRODUCTS PLC | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 1 | 2 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| BOEHRINGER MANNHEIM G.M.B.H. | • | • | • | • | • | • | | • | | • | • | | • | • | • | _ | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | U | 0 | 5 | |

| Organizational Patenting | | | | (Grante | ed: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizati | ons with | 5 or | More Pat | ents | - |
|--|------|------|------|---------|-----------|---------|----------|---------|------|----------|----------|----------|----------|------|----------|-------|---|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| CHURCH + DWIGHT CO., INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| CINCINNATI MILACRON INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| COCA-COLA COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| CUMMINS ENGINE CO., INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| EMERSON ELECTRIC CO. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | |
| Patents By Year of Application: | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| ETHYL CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | |
| FMC CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents by fear of Application: | 3 | U | U | U | U | U | | U | U | _ | U | U | U | U | U | 5 | |
| HITACHI CABLE, LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| IDEMITSU KOSAN COMPANY LIMITED | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| INTEL CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| INTERNATIONAL FLAVORS + FRAGRANCES INC | | | _ | _ | _ | _ | _ | _ | _ | | | _ | _ | _ | _ | _ | |
| Patents By Year of Grant: | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |

| Organizational Patenting | | | | (Grante | ed: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | Ranked Li | st of Or | ganizati | ons with | 5 or | More Pat | cents |
|---|-------------|------|------|---------|-----------|---------|----------|---------|--------|-----------|----------|----------|----------|----------|----------|-------|
| | | | | | | | | | | | | | | | | |
| | Pre 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL |
| | 1900 | 1900 | 1909 | 1990 | 1991 | 1992 | 1993 | 1994 | 1993 | 1990 | 1997 | 1990 | 1999 | 2000 | 2001 | TOTAL |
| KENNAMETAL INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| Patents By Year of Application: | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| L'OREAL S.A. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| Patents By Year of Application: | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| LAITRAM CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| LUBRIZOL CORPORATION | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG | | | | • | | • | | | • | | | • | • | | _ | _ |
| Patents By Year of Grant: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
| NOT THE T THIMBD | | | | | | | | | | | | | | | | |
| MOLINS LIMITED Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents By Year of Application: | 5 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents by rear or Application: | 5 | U | U | U | U | U | U | U | U | U | U | U | U | U | U | 5 |
| NIPPON SEIKO KABUSHIKI KAISHA | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 1 | 0 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents By Year of Application: | 1 | 0 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1400100 27 1041 01 1151104010111 | - | · | - | _ | | _ | <u>.</u> | | | | | | | <u>.</u> | | |
| NIPPON THOMPSON CO., LTD. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| NORTHERN TELECOM LIMITED | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| Patents By Year of Application: | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| PPG INDUSTRIES INC. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |
| ROCKY RESEARCH | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 5 |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 5 |
| | | | | | | | | | | | | | | | | |

| REISSUE PATENTS, 1977-2001 | | | | | | | | | | | | | | | Page | В - 18 | |
|---|------|------|------|----------|----------|---------|-----------|-------|------|----------|----------|----------|------------|--------|----------|--------|--|
| Organizational Patenting | | | | (Grante | ndTan O | 1. 1977 | - Dec 31. | 2001) | R | anked Li | st of Or | ganizati | ong with | 5 or 1 | More Pat | ents | |
| organizational racenting | | | | (Oranico | a. Jun J | _, _,, | DCC 51, | 2001) | -, | umcu DI | oc or or | guminaci | 0115 #1011 | 5 01 | nore ru | CIICD | |
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| | | | | | | | | | | | | | | | | | |
| ROLLS-ROYCE PLC | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| SANDEN CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| SANTA FE INTERNATIONAL CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| SCM CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| SEGA ENTERPRISES, LTD. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 5 | |
| • | | | | | | | | | | | | | | | | | |
| SEMICONDUCTOR ENERGY LABORATORY CO., | LTD. | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | |
| Patents By Year of Application: | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| STERLING DRUG INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| SUMITOMO CHEMICAL COMPANY, LIMITED | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| racenes by rear or approaches. | - | ŭ | ŭ | · | - | ŭ | · | - | Ů | · | ŭ | Ū | ŭ | ŭ | Ū | - | |
| SUNDSTRAND CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| | | | | | | | | | | | | | | | | | |
| TEKTRONIX INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| TELEFONAKTIEBOLAGET LM ERICSSON | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 5 | |
| | - | - | - | - | - | - | _ | - | - | - | _ | _ | - | - | - | - | |

| Organizational Patenting | | | | (Grante | d: Jan 0 | 1, 1977 | - Dec 31 | , 2001) | R | anked Li | st of Or | ganizatio | ons with | 5 or 1 | More Pat | ents | |
|---|------|------|------|---------|----------|---------|----------|---------|------|----------|----------|-----------|----------|--------|----------|--------|--|
| | Pre | | | | | | | | | | | | | | | | |
| | 1988 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | TOTAL | |
| TORAY INDUSTRIES INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | |
| Patents By Year of Application: | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 | |
| TORO COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | |
| Patents By Year of Application: | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | |
| TORRINGTON COMPANY | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| UNIROYAL, INC. | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| UNIVERSITY OF MINNESOTA, THE REGENTS | OF | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Patents By Year of Application: | 3 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| WACOM CO., LTD. | • | • | • | • | | • | | • | • | • | • | • | • | • | • | - | |
| Patents By Year of Grant: Patents By Year of Application: | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 5 5 | |
| WISCONSIN ALUMNI RESEARCH FOUNDATION | Ü | U | 2 | 2 | U | U | _ | U | U | U | U | Ū | Ü | Ü | U | 5 | |
| Patents By Year of Grant: | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | |
| Patents By Year of Application: | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | |
| ZENITH ELECTRONICS CORPORATION | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | |
| Patents By Year of Application: | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | |
| Other Organizations (3331) | | | | | | | | | | | | | | | | | |
| Patents By Year of Grant: | 1670 | 133 | 168 | 185 | 129 | 199 | 171 | 165 | 157 | 146 | 162 | 174 | 244 | 287 | 285 | 4275 | |
| Patents By Year of Application: | 2010 | 162 | 164 | 180 | 191 | 181 | 181 | 223 | 213 | 209 | 210 | 191 | 119 | 41 | 0 | 4275 | |